CanCore version 5.1.4 p5\_4578 Capyright (c) 1993 - 2003 Campugen Ltd.

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March 2, 2003, 13:52:59 ; Search time 11329 Seconds (without alignments) 11827.109 Million cell updates/sec

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## SUMMARIES

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RESULT 1 HUMVDR

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PRI 14-JAN-1995

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vitamin D receptor. Human jejunam, cDNA to mKNA, clones lambda VDR-[1,2] and VDR-3. ORGANISM

SOURCE

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l (buses 1 to 4604)
Baker.A.R., McDonnell,D.P., Hudhes,M., Crisp,I.M.,
Mangelsdort,D.J., Haussier.M.R., Pike,J.W., Shine,J. and
O'Malley,B.W.

REFERENCE AUTHORS

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KGFFKRSMKPRALETOPPNGFOELTANNRHGGACPLRRCVOTGMMKEFTLIDEEVOR
KFFMTTKPKFEFFETTOPPNVGFFGDETTATETTAHPKTYDPTYSOPOQEPDVPVVN
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Homo sapiens gene for vitamin D receptor, exon 9 and complete cds.
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4841 OTGOSTIGIAAOTOCAACAGOOSTIGAGAAGAGAAAGAAAAAAAAAGAAAATOAGTOTGOOFO
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48155 AATTATTATTGCTGTTGTTATTTTAGAAGGGTCTAGGGAGAGACCTTGTTTGA 48214
                                                                                         3640 DACAACAACAACAGAAACICCGTCTTACAACICGACCACACAACAACAACTTTGCAGPC 3699
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                         3280 AAACGAGTCAATCCCCTCATTCAGGAAAACTGACAGAGAAGGGGGTGACTCACAGAGCC 3339
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Mammalia; Eutheria; Primates; Catarrhini; Hominidav; Homo
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Baylor Plaza, Bouston, TX 77030, USA
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42% ATTITICACAAGATIGCGAGAGACAGGAAAHGCLGGGCLGGGLAACLGGAAGCAIGTA 4355
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Homo sapiens 12479 | PAT EPTE 1857127 (F.ya.)| Pik Gander
Institute Human PAC library) complete sequence.
                                                                                                                                                                                                                     on Sep 17, 1948 this sequence years or replaced giratA29003
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Direct Submission
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33630,
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37885. 34005,35333. 35504,44326. 44477,44683. 44799,
6129. 49599.
                                                                                                       Sequence similarities were identified using Powerblast by Jinghui
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/note-"J03258"
47566. 47708
/gene "Vitamin D (1,25 dihydroxyvitamin D3) receptor"
/gene "Vitamin D (1,25 dihydroxyvitamin D3) receptor"
/Rundard names "Will7447"
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/standard_name="J03258"
/note="GDB:4571935"
                                                                                                                                                                                                                                                                                                                                                       205. .1141
//note="Region: Similar to Unigene cluster Hs.119430."
809. .1137
//note="Region: Similar to Unigene cluster Hs 113582."
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                                         The repeat regions shown were identified using RepeatMasker by
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105150, .105279
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tipe C. Mismatches II, Endels
it will be indicated in the annotation.
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106362. .110220
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105136, .105592
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108055. .108681
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/clone="RPCI5-1057120"
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- 4	31 -	CCTCC 1487            CCTCC 46477	CATTOT 1546 [[111] CATTOT 46537	CCTCAG 1606           CCTCAG 46597	SAGGCT 1666            SAGGCT 46657	1	178 467	CAC 1	ZATT 190       	3 196     469	AAACAG 2025            AAACAG 47016	208	TGAATT 2145         TGAATT 47136	TTACCT 2205          TACCT 47196	226	CTTCTC 2325         CTTCTC 47316	ATGATC 2385         ATGATC 47376
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                                                                                                        2444 CTGCCCCACCCAGAGTGTGGAAGGAAGAGGGGCAGTCTCGGGTAGTTGTAGTAAAA 2503
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o do	3580	AFTGAACCCAGGAGGTGGAGGTGAGCTGAGGTCGTGCCGTFACTCTCCAACCTG 36 FELFELFELFELFELFELFELFELFELFELFELFELFELF	39
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र उ	4236	AATGTAAAACTTTTAAGGTATATCATTATAACTGAAGAGAAGGGCCCCAAAATGCAAG 42 	95
7.7 do	4296	ALTITCCACAGAGATTCCCAGAGAAAATCCTCIGACIGACTAACTAACTAAACAETTA 43 EFEFFEETE HILLITTITITITITITI ATTITCACAGAGATCCCAGAGAAAAAATCTCTGACTAAACTGGAAAGATGTA 49	55.347
7.7 di	4356 49348	156 GGAGAATOCAAGCGAGGTCAACAGAAAGGGAGAATICTICTICTICAGAATTTAGTGAAAGGT 44) 	4415
ž <u>a</u>	4416 49408	AGAGATATGGCAGGAAAGGATGTAAACAGTGCTGCTGAATGATTGAT	75
<u></u>	4476	AAGITIGCCAGAAGITIGCAAGICAAOGAA BITAGAAAGCITTGCITAIGCIAATAAAA 45 	35 527
<u> </u>	4536	AIGCECCATACTTATATAGGACTTACTTTGCAAGTACTGCTGTAAAVAAAGGTT 450	ان ت

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Name is a furnerial primates: Catarrhini; Hominidae: Homo.

I (bases I to 194199)

Muzny, D. M., Adams, C., Adio Oduoda, B., Ali-Osman, F.R., Alien, C., Ashrows, S.L., Ameratumae, H.C., Arc, J.R., Myclo, M., Banks, T., Babbaria, R., Bonnin, D., Bubbaria, R., Bonnin, D., Bubbaria, R., Brita, M.C., Bonnin, D., Bubbaria, Renth, P., Brown, M., Byyank, N. C., Carver, D., Chavez, D
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Db 169500 CCATGAGGAGTIGCTGTTTGTTTGACAAAGAAACCAAGTGGGGGCAGAGAAAAAAAT 169559
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Db. 169440 CTCTCCTGTCCAACCLAACCCTFFCCTGFGGGTTTFCCCCGGGTCCTTGACACCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                     Db 169739 GATAAATAATCGGCCCACACCACCCACCCACCCCTCAGTGCCCACACCACCATT 169798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2206 OCTGOCCACGAGAGCCACCTCCCTCTCTCCTCCCATCACGACTACCTAAGACC 2265
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                                                                                                                             1607 CCATGAGGAGTTGCTTTGTTTGACAAAGAAACCAAGTGGGGG AGAGGGAAAAGAGGCT 1666
                                                                                                                                                                                                                                                                                                                                                                          1667 GGAGGCA-GGCCTTGCCCAGAGATGCCTCCACACCCTGCTGACTGCTGATGTTGATGT 17.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1726 TGAGGGAACAGACAGAGAAALGCATTCCATTCCTCAGAGACACACTGCAGCTCCC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1786 OD ACHAMAGOO COMELGIO MACCOMINAGE CONTOCICIO CONTRACTON 1845
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QY 2680 GGGTGTTTGTGA 	AGAGTGAGTTGTAGGGGGGCCCGGTACAGAAAGGGGTTCTTCCAG : HILLIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHI	2739 170638
GATCAC		○ —
UY 2797 IGAGICACTAGGAA 	FTAAAGTOAGTGGGAACGTGACGCCAACTCCTGGAAGCTGF 	285 170
Oy 2857 GICCIIGCACH 	CTGAAAACCGAGAGAATCAGACTGACACTG 	2916 170818
QY 2917 CAACACCTTGC 	TCGACCEGSCCCATGTCTCTCAGATTCTTCAGGGAAAACAU 	
Oy 2977 CTGAAAGGCACGFT 	CCTFACTGCAGAATAGCATATATCGCTTAATCTTAAATTTTTTTT	3036 170938
Oy 30.37 GAFATGAGITGT FELLITELITE Ob 170939 GAFATGAGITGT	TITCAGACTCAGACTCCAITIGIALTATAGTCTAATATACAGGGTAGC 	· ·
7 AGGTACCACTGA 	FTIGGAGATATTATGGGGGGAAACTTACATTGTGAAACTTCTGTGT FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	10 -
<ul> <li>Δy</li> <li>δ) ΔΙΤΑΝΙΤΑΤΙΑΙ</li> <li>ΓΕ 171059 ΑΙΤΑΝΙΤΑΙΤΑΙ</li> </ul>	SATTT	16
3217 TAV 11 171119 TAV	AAGTT         AGTT	11
277 GC 	CCAA CCAA	36
347 GD  - 247 G-	20TGT 	3396 171295
47 AA 11 96 AA	ntotageagittaggaggicgaggiggagtiggatagcigaggitoggagittgagagci 	3456 171355
457 AA(  -  356 AA(	AAAAA             AAAAA	3515 171415
6 AAAATAGGGG 	CTGTAATCCAACTACTCAGAGGCTGAGGCAG	3575 171475
6 AAGAATTGAAG 	GGAGGTGGAGGTGGAGTGAGGTGAGATCGTGCCGTTACTCTCCCAA 	3635
86 CCTGGACAACA 111111111111111 86 CCTGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TTABAACTSBACCASBACCAGACAGACATTTGG 	3695 171595
OY 696 ASTEATESTOCOCOCIONELLE DE 171596 ASTEATGGCCGGGGGGCCTT	PORCHA/PORTITION PROPERTION PROPERTY OF PROPERTY OF THE PORTION PROPERTY OF THE PORTION OF THE P	3755

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Db. 172253. TGTAGGAGAATGCAAGGGTGGTGAAGAAAAAAAAAGAAGAATGTGTGGAAATTTAGGGAA 172312.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3994 HOGATHESTOTHTGTAATGTCACCTFOOCASTCTCCCTFGGCCTGTG-CFFCTTCG 4052
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4053 GGGAACICCT-GAAATAICAUTFACICAGCCCTGGGCCCCACCACCACCIAGGCCACTCCTCC 4111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4172 GAANGGGGAGAAAAGGIGAIGAIGGAIIGITAGITITAGAAIGASAGIGIGAAAIAGACATT 4231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4292 CAAGATITICCACAASAIICCCAGAGACAGAAAICCITTGGCTGGCTAACTGGAAGCA 4351
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3756 CCCCAGGTGGCTGACCCASTCGCTGGGGGAAGGCTTGAGAAAGAGCCAAGTGTG 4815
                                                                                                                                                                                                                                                                                                                              3816 GATCTGGGACCCTTTCCTTCCTTGCTTGGGTTGTAACTCCACGAAGCCGATCAGAAGGAG 3875
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                                                                                                                                                                                                                                                                                                                                                                                                   Db 172492 CTTTATGCAAACC 172504
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## RESULT 6

AK024830

AK024870

DEFINITION Homo sapiens cDNA: FLJ21177 fis, clone CAS11130, highly similar to HEMNDR Human vitamin D receptor mENA.

AK0248.01

AK0248

CDNA to mRNA, clone\_lib:CAS clone:CAS11130. ORGANISM Homo sapiens Enkaryota; metazoa: Chordata: Craniata, Vertebrata, Euteleostomi;

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Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science, University of Tokyo, Laboratory of Genome Structure Analysis, Human Genome Center, Shirokane etal, 4 6-1, Minuto-ku, Tekyo 108-8639,
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                                                                    | (sites)
Watahabe, K., Fumepeli, A., Itakura, S., Yamazari, M., Tashiro, H.,
Ota, E., Suzuki, Y., Obayashi, M., Nishi, T., Shibahara, T., Tanaka, I.,
Nakamura, Y., Isopai, T. and Sugano, S.,
NHAO human cDNA sequencing project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /coll_type "primary smooth muscle cells of human coronary artery"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11. 1687
Zeotos "highly similar to HUMVDE Human vitamin D receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  International frade and Industry of Tapan; craw full insert sequencing: Research Association for Biotechnology; cDNA library
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Z. (bases 1 to 1682)
Sugarov, S., Suzuki, Y., Ota, L., ebayashi, M., Nishi, T., Isogai, L.,
Shibabara, T., Tanaka, L. and Nakamura, Y.
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Fax:81 3-5449-5416)
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2.317 CATCTTCTCCATCTGGCAGGGTGGGATGGAGGAGAAGAATTTTCAGACCCCAGGGGTTGA 2.376
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PODPERSMKERALI ETO DENODOD LIKONO PIPOVOD CRROVO LOMMERILI INDERVOR
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/r!oner"S3C10P211a (base 1059-1137) and S11C7P1.4 (base
                                                                                                                                                          doto.fi., Chen.K.S., Prahl.J.M. and DeLuca.H.F.
A sindle receiptor identical with that The Theories.
mediates the action of 1.25 dibydroxyvitamin D-3 in HL-60 cells
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334) JOHN FOLMATOPPAGGAGTI TAGGAAGIPPAGAJIAGGI JAGATBAGGIIGAGGIPGGGARITM 3450
                                      HELLER HE
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1 (bases 1 to 1335)
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/protein_id>"CAA47824.1"
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SETTMDDMSWTGGOOFYKTYKSDVTARAGNSLEDTERPLIKFQVGLKKIMLHEEBHYLIM
AICTVSEDFFFVQTAALTFATGOOFKSTATTGTYTF*YHPPFSHLIYAKMIQKIANLFS
INFEHSKQYRCLSFOPDCSMKLTPLVLEVFGNRIS**
                                                                                                                              PAT 22-10N 2001
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KGEFRPSMKRKALFTOPENGEPTTKINDPRHOGAGETRPCVLIGMMKEFTLIDEEVOR
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                                                                                                                                                                                                                                                             Homo sapiens
Bukaryota; Netazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
                                                                                                                                                                                                                                                                                                                                                                  Polypoptides derived from vitamin d nuclear receptor, and their uses in particular for sereoning vitamin d analogues. Patent: WO 0138193-A 131-MAY-2001. CENTRE NATIONAL DE LA RECHESCHE SCHENTIFIQUE (CNES) (FF)
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1 (bases 1 to 1284)
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                                                                                                                                                     Sequence 1 from Patent W00138393.
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Mammaiia; Euthetia: Primates, Piatyrrhini, Caliitrichidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      956 ATGGACGACAFGTCCFGGACTGFGGCAACCAAGATACAAGTAACGGGGTCAGTGACGTG 1015
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                          781 GIACIGCIGAAGICAAGIGCCAIDGAGICAICAIGIACATCAATGAGICCIICACC 840
                                                                                                     601 AGCILCI CCAALCI GGALCI GAGI GAASAASAI I CAGAI GACCOI I CI GI GACLOI AGAGA CAGA
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1 (bases 1 to 1284)
chom.R.F., Chec.H., Boldrick,L., Sweet,C. and Adams,J.S.
Coning, sequencing, and functional characterization of the vitamin
D receptor in vitamin b resistant New World primates
Am. J. Primatol. 54 (2), 107-118 (2001)
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ESETMIDMSWITCONPDYKYELSTVTKACHNIPLTEPLIFEVOKKKINLHEEEHVLLM
ATCTVSPDREGVQDAALLEATQDRLSNITQTYTECHPPPGSHLLXAKMIQKLADLES
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                                                                                                                                             Draft entry and computer-readable sequence for [2] kindly provided by J Burmester, 13-TAN-1589
Location/Qualifiers
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                   Burmoster, J.K., Wiese, R.J., Maeda, N. and Debuca, H.F.
Structure and regulation of the raf 1,25-dibydroxyvitamin
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clone distribution: MGC clone distribution intormation can be found through the L.M.A.G.E. Consortium/GLNL at. http://image.Hnl.gov.Series: IRAK Plate: 17 Row: o Column: 4
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Mas muscellas, ellamin D receptor, clone MOC:12147 IMAGE:3710866,
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Yoon, V.S., Kowis, C.R., Lawrence, S., Martin, R.G., Muzny, D.M.,
Richards, S., Gibbs, R.A.
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Eukuryota, Metazoa, Chordata, Chanlata, Verrebrata, Euteleostomi,
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                                                                                                                                                                                                                       171 - FILLE II FELLET FILLE II FELLET FILLET HELLET FILLE FILL FILLE FIL
                                                               This clone was selected for full length sequencing because it.
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Tissue Procurement: Joilrey Green M.D.
edwa Library Preparation: List rechnologies, Inc.
etwa Library Artayed by: The L.M.A.G.E. Consortium (JLML)
UNA Sequencing by: Baylor College of Medicine Human Genome
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Contact: amaibemitme.eda
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/protein_id="Baa06737,1"
/db_xref="G1:699619"
/translation="MEAMAASTS!PPPOPPPNVPPFGGGVGORATGPHFNAMTCEGG
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SPORPGVQDAKLVEATGDRLSNTLQTYTRORHPPPGSHQLYAKMIQKLADLRSLNEEH
SKQYPSLSFQPENSMITTPLVLEVFGNEIS"
                      Kamei, Y., Kawada, T., Fukuwatari, I., Ono, I., Kato, S. and Sugimoto, E. Cloning and sequencing of the gene encoding the mouse vitamin {\cal E}
                                                                                                                                                                  Kamei,Y., Kawada,I., Pubuwatari,T., Ono,T., Kato,S. and Sugimoto,E.
Unpublished
                                                                                                                                                                                                                                                                                      Submitted (29-10N-1994) Yasutomi Kamei, Eyste University, Food Stinne and Terthalady, Etlashisakasiwake the, Sager Egit, Kyolo 605-01, Japan (101:078-723-6263, Pax:075-753-6264) Location/Qualitiers
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/product="vitamin D receptor"
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<u>ار ج</u>	561	ACTICTOPCAGITIC/GOOCTCCAGITIC/GROADGAGGGAGGAGGAGCGTCCAACTTCAACTTCCGGGAGGAGGAGCGATCCTCCAAATTCCGGAGACGGAGAGAGA	620 613
÷ ÷	6.14	OBPUTANCEO A DA CAPACEO CA COLLO COL	680 658
8 8	659	APTOTATOPOTOTTCAGACATGATGGACTCGTCCACTTCTCCAATCTGGATCTGGGTCTGGGTCTTGGGTCTTGGGTCTTGGGGGGGG	740 718
축 중	741	ANJANGATICAGATGACCCTTCTGTGACCCTAGAGCTGTCCCAGCTCTCTGGTGCTGCCCCTTTTTTTT	800 778
<u> </u>	979	ACCESCECCACTECACTECACCCAAAAGGCCATTGCCTTTGCCTATGGTTTTGCTAAGATGATGATGATGATGATGATGATGATGATGATGATG	860 838
₹ #	8 4'4	CAGATH CAGAGACHCHGAGAACCAGATATTH THE THE THE HILL HELLER THE CHGCTTCAACTCCCATACTCAGATTATTATTATTATTATTATTATTATTATTATTATTAT	920 898
ें ₹	3 t 2 1	ADBITCATO ALGERIGE CONTROL OF THE TELL TELL TELL TELL TELL TELL TELL	980 958
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5 3	1041	TGALLGAD PPOLICATOAGI PODAGIOGGACTGAAGAAGCTGGAACTTGCATGAGGAGG TTLLTTTTTTTTTTTTTTTTTTTTTTTTTT	1100 1078
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ADIHORS Moras, D., Guiberteau, N. and Wurtz, J.M.

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                  836. GTCATTGGGTTTGCTAAGATGATACAGGATTCAGAGACTCTCAGCTCTGAGGAGCAGTATG 895
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## ALIGNMENTS

AASEGUS standard; chNA; 4604 BP. AASh4305

RESULT 1

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is FER 2002 (lirst entry)

PNA encoding movel buran diagnostic protein #5109.

Human, chromosome mapping, gene mapping, gene therapy, foresic; tood supplement, medical imaging, diagnostic, genetic disorder; ss.

Homo sapiens.

W0200175067-A2.

11-ocr-2001.

80-MAR-2001; 2001WO-US08641.

31-MAR-2000; 2000US-0540217. 23-AUG-2000; 2000US-9649167.

(HYSE-) HYSEQ INC.

Tang YI; Dimanac RT, Liu C,

WPI: 2001-649362/73. P-PSDB: ABG05118.

New isolated polynucleotide and encoded polypoptides, useful in

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diadnostics, forensies, gene mapping, identification of mutations responsible for genetic disorders or other fraits and to assess
                                                                                               biodiversity
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Claim 1; SEQ 10 No 5109; 103pp; English.

for identifying expressed genes (1) is useful in pene therapy techniques to restore normal activity of (11) or to treat disease states involving (II). (II) is useful for generating antibodies against it, denorting or quantitating a polypeptide in tissue, as molecular weight markers and as a food sapplement (II) and IIs kinding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving alertnat, provide appression or biological artificity. The polypeptide and polymetechide sequences have applications in diagnostics, foreusins, generalized the polypeptide and polymetechide sequences have applications in responsible for generic disorders or other traits to assess blodiversity and to produce other traits to assess blodiversity and to produce other traits of assess blodiversity amino acid sequences. AASA4197 AASA4564 represent novel human Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic formal directly from Wibo polynucleotides are also used in diagnostics as expressed sequence tags polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PGF) primars/ olipomers, and for chromosome and gone mapping, and to recombined production of (II). The The invention relates to isolated polynucleotide (I) and diagnostic coding sequences of the invention

Sequence 4604 BP; 1114 A; 1278 C; 1197 G; 1015 T; 0 other;

at ftp.wipo.int/pub/published\_pct\_sequences.

0 Gaps DB 23; Length 4604; 0; Indels 100.0%; Score 4504; 100.0%; Pred No 0; Mismatches . C Best Loral Similarity 100 Matches 4604; Conservative .Query Match

181 GATCTGTGGGGTGTGTGGAGCGAGCCACTTGGCTTTGACTTCAATGCTATGACCTGTGA 240 241 AGGCTGCAAAAGGCTTGCTTGAGGCGAAGCATGAAGGGAAGGGAGTATTGACGTGCCCCTT 300 301 CAACGGGGACTGCCGCATCACCAAGGACAACGCCAATGCCAGGCCTGCCGGCTCAA 360 361 ACOCTOTOTOGACATOGGCAHSATGAAGGAGTICATTOTIGACAGATGAGGAAGTGCAGAG 420 481 CAAGCTGTGTGTGAGGAGCAGCAGCAGCATTGGCATTACTGGTGGAGGGCGACGAGAAAAAC 540 541 CTACGACCCCACCTACTCCGACTTCTGCCAGTTCCGGCCTCCAGTTCGTGTGAATGATGG 600 61 ACCICACAGAAGAGCAGCGTGGGCTGCACTTAGCTGGGGGGCTGGTGCTTCAGGGATGGA 120 121 GGCAAIGGCGGCCAGCATICCCIGCTIGACCTGGAGACTTIGACCGGAACGFGCCCCG 180 241 AGGCTGCAAASGCTTCTTCAGGCGAAGCGGAAGGCGGAAGGCACIAIICACCIGCCCCI 300 481 CAAGCTGTCTGAGGAGCAGCAGCGCATCATTGCCATACTGCTGGACGCCCACATAAGAC 540 · 🚊 Š <u>a</u> Ś 3 2 ò a

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(see AAW68156) that plays a central role in the regulation of calcium metabolism, and hence in determining bone homeostasis. The receptor has a polymorphic variation that is detected with Bsm.). There are 3 associated genotypes, bt. Rt and Rt. that are related to circulating osteocalcin layers and bone mineral density in both young and postmenopausal women. A claimed method comprises identifying individuals having a certain phenotype, determines the pusature of absence of genetic markets associated with the phenotype, and instituting a litestype change to exploit or counteract the phenotype expressed by the gene market. If the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301 CAACGGGGACTGCCGCATCACCAAGGACAACGGCCAATTGCCAGGCTTGCCGGCTCAA 360
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           phenotype is a reduction of bone mineral density, the quae marker is the virunts a receptor and exercise training is instituted to increase bone mineral density. A general method can be used to identify subjects who will benefit most from physical exertise and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 4602.4; DB 19; Length 4604;
100.0%; Pred. No. 0;
Live 0, Mismatches 1; Indels 0; G
                                                                                                                                                                                                                                                                                                Analysis of genetic markers to identify subjects who will benefit
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                                                                                                                                                                                                                                                                                                                                        anglotensin converting enzyme genotype
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                                                                                                                                   (UYPAA-) UNIV MAPYLAND RALFIMORE, (UYPI-) UNIV PITTSBURGH.
                                       97WC-US22974.
                                                                             97US-0048309.
                                                                                              97115-0035382.
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                                                                             27-MAY-1997;
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           3841 CTGGCTTGTAACTCCACCACCCATCASAAGGASAAGGAGGAGGAGGACTCTGCCTC
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viramin to regionity, hydroxylase, 25-hydroxyvitamin E Lalpha hydroxylase, Hodgkin's disease, Leukemia, Mapesi's sarcoma, prestatic hyperplasia, hyperproliferative skin disorder, psorlasis, lehthyosis, calcium, VDR, actinic keratoses, been metabolism disorder, recal estrodystrophy, ficket, estroporosis, hyperparthyodism, hair loss, alopecia; ss, when the alice, actinical disease, diabetes mellitus type I, arthritis, multiple sulerosis, hyperpalermia, lathba hydroxylase, lathba-ohase.

Homo sapiens.

WO 994 9027 AT.

50 SEP 1999.

99W0-US06491. 25 MAR 1949;

98US-0047918, 990S-0122268. MAR 1998; : 6,6,6, ]

9908 - 0122270. 9908-0123669. 1,4,4,4 : 6,4,6, ΜΛŀ ΜΛĶ 

9908-0124670. (CUIA-) CUIANOBEN INC U3-MAR-1999;

Kong XF; Schwartz GG, Lokeshwar BL, Chen TC, Whitlatch LW, Holick MF;

WP1: 1999-572201748.

Inhibiting cancer by increasing levels of a metabolic procursor of 1,25 dihydroxyvitamin D

Disclosure; Page 75-77; 79pp; English.

comprises increasing levels of a metabolic precursor of 1,25-dihydroxymitable (1,25(%)35, also referred to as calcitriol) available to a target cell while reducing the risks of OV radiation The invention relates to a method for inhibiting a tumor cell that

present tumer cell prediteration, inhibit invasion of cancer cells or inhibit metastasis of cancer cells. The methods are used to determine the exposure or vitamin P texicity, where the target cell has a hydroxylase enzyme for synthesizing 1,25(0H)2D from the metabolic precursor. The method can be used to promote differentiation of target cells and to tisk of development of invasive cancer and also for predicting the

success rate of a particular treatment. A polynucleofide construct expression of Lydroxymitania b Laipha Lydroxylase can be used to treat Hoddkin's disease, non-Hoddkin's lymphoma, leukemia, cancers of the breast, every, long, testes, brain, stemach, bead and neck, papereas,

quillourinary system, thyroid, esophagus, adrenal cortex, skin, and prostate, Kapasi's sarcama, benjan prostatic hyperplasia, a hyperpoliterative skin disorder, especially prostative si, ehthyosis or actinic ketaloses, a calcium or bone metabolism disorder, especially rehal osteodystrophy, vitamin-D-dependent rickets type Lor IL, X-linked selectusis, the unated atthritis and psoriatic aithilis. The present sequence represents a vitamin D receptor (VDR) que sequence. This gene can be used along with a lalpha-tydroxyluse (lalpha-dame) quee for gene hypophosphatemic rickets or osteoporosis, or low blood serum calcium due to hypoparathyroidism, or hair loss, e.g. alopecia androgenetic, female pattern baldness and chemotherapy induced alopecia, wound healing and autoimmune disease, especially diabetes mellitus type (, multiple

Sequence 4510 BP; 809 A; 1008 C; 938 G; 755 T; 0 other;

therapy. Lalpha edgase enzyme converts 25(OH)D to 1,25(OH)2D.

0; Gaps 76.2%; Score 3510; DB 20; Longth 3510; 100.0%; Pred. No. 0; 0; Indels 0; Mismatches Matches (510) Conservative Local Similarity onery Match

191 CTOTOTICTERAGISANGATISCAAFISCOGGSSAGGACTECCETGCCTGACCTGAGAGACTISCO Ē

161 T11GAMBGAAAGIBBGGGGGATGTGTGGGGGGGGGGAGAGGGAGGGCACTGGGCTTTCAC 220

d d	19	TTTGACC66AACGTGCCCCGGATCTGTGGGGTGTGTGGAGAGAGAGGCACTGGCTTTGAC	0.7
ζ	123	TUÇARIQÇIRATGAÇIRITGAAĞOTTORAAAĞOTTIRTI ÇAVOOSAAVOTGAROARDAĞ 	280
D.	121	LICAATGCIALGACCIGIGAAGGCIGCAAAAGGCIICTICAGGGGAAAGCAIGAAGGGGAAG	180
oy Op	281	GCACTATTCACCTGCCCTTCAACGGGACTGCCGCATCACCAAGACAACGGCGCACTTHIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	540 240
ò	341	TGCCAGGCCTGCCGGCTCAAACGCTGTGGACATCGCATGATGAAGGACTTCATTCTG	400
gg (	241	TGCCAGGCCTGCCGGCTCAAACGCTGTGTGGACATGGGGTGATGAAGGAGTTCATTCTG	000
oy Ob	301	ACAGATGAGGAAGTOFAGAAGAAGGAGGAGGATCCTGAAGCGGAAGGAGAAGAGGC ELLILLITTITTITTITTITTITTITTITTITTITTITTIT	460 460
Qy Db	461	TTGAASGACAGTCTGCGCCCAAGCTGTCTGAGGAGCAGCAGCATATGCGTTACTG 	520
oy Ob	521	CTGGATGCCTACCATAAAAN TAGAACCA CLACTCCGACTFCTGTCACTFCCGGCT 	580 480
QY 나	581 481	CCAGITICATGISATGATGATGAGAGAGCATCCTICCAGGCCAACTCCAGACACT []	640 540
Q. 03	641	COCAGUTETETETGGGGACTECTECTECTECTCAGATEACTGTATEACTGTTATEAGAE 	700
cy Op do	701	ATGATGACTCGTCCADCTTCTCCAATCTGGATCTGAGTGAAGAAGATTCAGATGACCCT 	760
čs ds	761 561	TOTGTOACCTAGAGCTGTCCCAGCTCTCTCALOCTGCCCACCTGAGTGACTTGGTCAGT 	820 720
55 G	821	TACAGOATCCAAAAGGCATTGGTTAGCTAAGATGATACCAGGATTGAGAGACCTCACCTTTTTTTT	780
47. 10b	881 781	TOTGAGGACCAGATCGTACTGCTGAACTGCCAATTGCCATTGAGGTCATGTTGCGCTCCTTTTTTTT	940
ý. Db	941 841	ARTGASTICE FICACIA DISACIACIANA ISTICI ESSACTICTIS ISSICAACCAACTAAANTACTAACTAACTAACTAACTAACTAAC	1000 900
V⊊ Db	1001 901	nanat gastraantaan taaban naan Pahaan 1938an 1938 1938 1938 1938 1948 1948 1958 1958 1958 1958 1958 1958 1958 1958 1958 1958 1958 1958 1958 1958 1958	1060
0.7 Db	1061 961	061 TTCCAGGTGGGGACTGAAGTTGCATGAGGAGAAATGTCTCGTCATGTCTCTGTTCATGGC 112 	1120
9.y Db	1121	ALCTGCATCGTCTCCCCGGGGTCGTCCTGGGGTCGGGGGCGCGCGTTGAGGCATCGTTTTTTTT	1180
90 240	1181 1081	CAGGACGCCTGTCCAACACTGCAGAGTACATCGGCTGCGGCACCGCGCGCG	1240
ò	1241	AGCCACCTGCTGTATGCCCAAGATGATCCGAAACTTAGGCGAACCTGAGGCAACTGAGAACTTAGAAGAAACTTAGAAAACTTAGAAAAAAAA	1 400

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	1420 1320 1480		1500				1840		1960 1860	2020	2080 1980	2140	2200	2260	2320	2380
14) AGOMACTGUECTATGCCAAGATGATGGGGGAGCTAGCGGAGCTGAGCGCAAGGGT 120 30] GAGCAVICCAAGCAGTAGCGCTGACATAAACTGGAGAGGAGGAAGAAGAAGAAGAAGAAGGAAG		CTGGATGGGAGTGCTCCTCAAGGGAAGTAAGTGCAAGACCGAGAGATGGCGGGTTACCACCCAGCCAG	CATTCTCTCTCTCLGLCCAACCLAACCCTTLCCLGCGGGCTTTTCCCGGGGCCCTTGGGACCTTTTTTTTTT	OCTOAGOCATGAGGACTTGOTGTTTGTTTTTTTACAAAGAAACOCAACTGGGGGGGGGAATTTTTTTTTT	GAGRETRRAARONAROTTTGOOGARACA LOCOTOCACROLROCHIANGERGERGERGE ELELLELLETTETTETTETTETTETTETTETTETTETTET	GATSTIGARRAPARGARAGRAAAAAGGAAATGCATDCCTCAGGGACAGAGAACGCTGAAC 	CTCCCCCACTGCAGGCCCCCTTTGTCAAAAATGGGGGTCTCCCCTCTCTGTGTGTCTCTTTTTTTT	CTCACGATAAATAATCAGCCCACAGCTCCCACCCCCCCCTCCACTGCCCACCACCACCACCACCACCACCACCACCACCACACCACA	CCATTGCCTGGTTATATFCFCACAGAGTAGTAGTGGTGAGTGGGT FHOTOLICIT HTTLLTTTLTTTTTTTTTTTTTTTTTTTTTTTTTTTT	CACTORADO ACOMO GOA CADA CONTROCTO CONTROCTO ACOMO CACO CACO CACO CACO CACO CACO CA	AAPAGPERAVAGAAGAAFATGAPAGTTTTGTGTGTGTGAGGTGAGAGTTGGTGGGGGGGG	PORTICIAAGGGTTGGTTGAGTGGAAQCCTCTTCCACGGATCCATGTGAGGGGCT 	GAATTGFCCCCAGTTFCCAGAAAGGCCGACCTGGCGGCCGCGCGGCTGCCTGCCTG	TARRETON TON CRANARA A GOOD CONTROLLO DO LO SALO A DOSA A CONTROLLO DE LA LOCACIÓN DE LA CONTROLLO DEL CONTROLLO DE LA CONTROLLO DEL CONTROLLO DELA CONTROLLO DEL CON	GAGOCTORICARONOSTEORORASOGAGASTOTOGAGARANASIGAGOGAACE 	TTCTCCATCTGCGAGGTGGGAGATGGAGGAGAGATTTTGAGAGGGGGGGG
1141 1301 1201	1361 1261 1421	1321 1481 1381	1541	16.01 15.01	1661	1721	1781 1681	1841	1901	1461	1921	20.81 19.81	2141	2201 2101	2261 2161	2321
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such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These inhibitors may be antisense strands or they may be compounds identified by contacting the enzyme with the compound and measuring the resulting enzyme attacks are resulted to tradist contacts and for identifying which histone deacetylase is involved in a neoplasia.
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No. 0;
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46418 GGGCTGCTCCTCCAGGCCCAGGTGCAGGCCGGGGCTGGCGCTACTCAGGAGCCCTCC 46477
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        1667
        GGAGGCA - GACCTTGCCCAGAGA GCCTCCCCCACTGCCCACTGCCCACTGACTCT
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1309 CAAGCASTACCOSTOTOTOTOCITCCAGCCTGAGTGGAGCATGAAGTTAACGGGGTGT 1368
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48869 AAGGAGACTCACCTCTCAATCTCAATCAAATCAGACCTACACCACCACCATCTCCCTC 48928
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                                                                                 3580 ATTGAACCCASGAGGTGGAGGTTGCAGTGACTTCAGATGGTGCCGTTACTCTCAGACCTG
                                                                                                                               3760 ATGRIGGERICH GATILLOAGIAGAGOAIGIILGAGCIGAGAGGGGGGAGIGIGARIGGGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The 1,25-dihydroxyvitamin Di receptor is recombinantly produced using insect host cells transformed with DNA coding for an animal (pref. human, rat, porcine or avian) vitamin D receptor. The coding
                                                                                                                                                                                                                                                                              1,25 dihydroxyvitamin D3; receptor; recombinant protein production;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    transformation of the insect host. The human version of the coding sequence was published in Boker et al., Proc.Natl. Acad.Sci USA 85,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence is incorporated into a recombinant baculovirus wester for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Recombinant produ. of 1,25-di:hydroxy-vitamin D3 receptor protein using expression system comprising insect redi host and
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                                                                                                                                                                                                                                                 Human vitamin D receptor coding sequence.
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                                                                                                                                              AAUSi424 Standard; cDNA; 1399 BP.
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241 AGGTGCAAAGGTTGTTGAGGGGAAGGATGAAGGGGAAGGGGAGTATTCAGCGGCTT 300

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1081 GCTGAACTTGCATGAGGAGGAGCATGTCCTGCTCATGGCCATCTGCATCTTTCCCAGA 1140
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                                                                                                                                                                                                                                                           Nucleotide sequence of human vitamin D receptor (VDR) gene transcript 11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           to hVDR exon sequences) may be useful as probes for the detection of VDR variant transcripts and for assessing cell of tissue-specific expression of variant transcripts. The present sequence represents the nuclearide
Vitamin D receptor, VDR, hVDR, variant, isoform, SRC-1, GRIP-1, TF11H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    73 ACCARCECTEGGETEGACTTAGETGECEGTEGTRETTEAGGATGGAGGCAATGGEGGT 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   133 CAGCACTTCCCTGCCTGACTTTGAGACTTTGACGAACGTGCCCCGAATCTGTGGGGT 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polynuriections which encode novel isoforms of the human vitamin
D receptor or variant transcripts for NVDR
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253 CTPCTPCNOCCONNOCATIONNOCONNOCATION COLORGICAL FOR ACCOSTACT C 312
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  to high expn sequences) may be useful as probes for the detection of View variant transcripts and for assessing cell or tissue specific expression of variant transcripts. The present sequence represents the nucleotide.
                                                                                                                                                                 12.42 PROGRESONSONS AND LESTING TO SAVING TO SAVING TAY OF THE SAVING TO SAVING THE SAVING TO SAVING THE SAVIN
                                                                 1242 OTCAATGAGGAGGAGTOCAAGGAGTACCOCCOCCOCCTISCAACCGAGTGGAGTCCAATGATGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleotide sequence of human vitamin D receptor (VDR) gene transcript
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                                     28.0%; Score 1287; DB 20; Longth 1382; 100.0%; Prod. No. 2 26-302;
                                                                                                                                                                                                                                                             1952 ABHTHARTHOFFTHOFFTHOFFTHETTHETTHEATHARTHOFFTHEATHRA 1869
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1056 C1BAAGAAGCEGAACTTGCATGAGGAGGAGCATGTCCTGCTGTTATGGCQATCTGCATCGTC
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(FID) within the receptors ligand binding domain (LBD) is modified by substitution or deletion of amino acids. Elimination of FID results in a water soluble protein which can be crystallized as a complex with LLS dividuos, Vitamin D4. Modified VDR polypeptides, or crystals containing them, are used to serven for canthacturistic Vitamin D analogues, which are potentially useful for freatment of cancer,
                                       1313 CAGTAPGGCTGPPPPPPPPPGGGGGGGGGGCTTGTGTGTGAGGGAGGAAGTAAAGGCGTTGTGCTC 1372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence encodes a human nuclear vitamin b receptor. The specification describes a VDR in which the flexible insertion domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New medified forms of the nuclear Vitamin D receptor, useful e.g. to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 serven for therapeutic Vitamin D agonists and antagonists, lack the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                psoriasis, autoimmune diseases, osteodystrophy and osteoporosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tor analysis of the three-dimensional structure of complexes formed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleotide sequence of a human nuclear vitamin D receptor (VDR).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Vitamin D receptor; VDR; cancer; psoriasis; autoimmune disease; osteodystrophy; osteoporosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "muclear vitamin D receptor (VDR)"
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                                                                                                                                        1373 GAAGIGILIGGGAATGAGATGTGTGTGA 1399
                                                                                                                                                                            Location/Qualitiers
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                                                                                                                                                                                                                                                                                                                                                                              AAB24801 Standard; DNA; 1284 BP
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116 ALGGAGGCAATGGCGGCAGCACTTCCCTGACCTGAGGTTTTGAGGGAAAGGTG 175

Gaps

l; Indels

Pred. No. 2.8e 301; 0; Mismatches 1;

27,9%; Score 1282.4;

186.66

Best Local Similarity

Matches 1283;

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Conservative

DB 22; Length 1284;

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1021 CCAGATCGTPCTGCGCTGCAGGCGCGCGCTCGATCGAGGCCATCCAGGACCGCCTGTCC 1080
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176 - CCCCGGATCTGTGGGGTGTGTGGAAACGAAGTAGGTTTCACT FCAATGCTATGACC - 235
                   121 TGTGAAGGTTGGAAAGGGTTGTTCAGGGGAAAGATGAAGGGAAGGGACTATTCAGCTGG 180
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81 TOBOTHOPACTIACCTGOCOCTGOTCCTTCAGGGATGGAGGCAATGGCGGCCAGCACTT 140
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The 1,25-dihydroxywitamin D3 receptor is recombinantly produced using insect host cells transformed with DNA coding for an animal (pref. human, rat, porcine or avian) vitamin D receptor. The coding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transformation of the insect host. The rat version of the coding sequence was published in Burnaster et al., Proc. Natl. Acad Sei USA
                                                                                                                                                                                                                                                    1 2º dibydrozyvitasin D3: receptor, recombinant profess production,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence is incorporated into a recombinant baculovinus vector for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Recombinant produced 1,25 dichydroxy vitamin D3 receptor protein cusing expression system comprising insect coll best and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25.1%; Score 1154; DB 14; Rength 2043;
Rl 1%; Prod No 5 46-270;
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                                                                                                                                                                                                                               Rat vitamin D receptor coding sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    recombinant virus contg. foreign DNA
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266.,1363
                                                                             1376 GIGTITGGCAAIGAGATCICCIGA 1399
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                                                                                         AAQ51425 standard; CDNA; 2043 HP
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                                                                                                                                                                                                                                                                 insect host; ds.
                                                                                                                                                                                                                                                                                      Rattus rattus.
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104] TGATTGAGOGGGTOATGAAGTTOOAGGTGAGAOTGAAGAAAAAGGTGAAGTTGAAGTTGAGGAGG 1100
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isoforms of the human vitamin b receptor (VDR) or variant transcripts for hVDR. The polynucleotides are useful in methods for detecting agonist and for antagonist compound of a VDR isoform. An increase or derrease in activity of the receptor may be detected by measuring changes in interactions with known colactors (e.g. SRC-1, GRIP-1 and FFILB) or unknown colactors (e.g. through use of the dual hybrid system). The polynucleotides shown in AAX 4787, AAX 4791, and AAX 4792 (corresponding to hVDR exon sequences) may be useful as probes for the detection of VDR variant transcripts and for assessing coil or tissue specific expression
                                                                                                                                                                                                                                                                                                                                                                         of variant transcripts. The present sequence represents the nucleotide sequence of bVDR gene transcript 10.
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                                                             New polynacheotides which encode novel isotorms of the Numan vitamin
                                                                                                                                                                  The invention relates to isolated polynucleatides which encode novel
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24.7%; Score 1139; DB 20; Length 1534; 100.0%; Pred. No. 2.1c 266;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1534 BP; 345 A; 452 C; 422 G; 315 T; 0 other;
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                                                                                   D receptor or variant transcripts for hVDR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                      Claim 4; Fig 7; 56pp; English.
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Matches 1139; Conservative
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1056 AGGICALCAIGTIGCGCTCCAAIGAGICCTICACCAIGGACLACAIGICGIGGACTGIG 1115
                                                             1041 IGATIGAGCCCCTCATCAAGTICCAGGTGGGACTGAAGAAAAAAATTGATTGCATGAGGAGA
                                                                      1296 OCGOGTTSATTSARSOTALOTARSACTER FOR ARCASTACTS RESPONSE 1355
                                                                                                                                                                                   1221 GCCGCCACCGCCGCGGGGGGGCCACCGGCTATGGGGACAAGATGATGAGGAAGGTAGGGGTAGGGGTAGGGGTAGGG
                                                                                                                                                                                                                          1341 AGTGCAGCATGAAGGTAAGGGGGGTTTGTTGGTTGGGAATTGGGAATGAGATGCTGA 1399
                                                                                                                                                                                                                                                                             DNA encoding a vitamin D receptor isoform protein – useful for bone density determination and for screening substances for vitamin is
                                                                                                  vitamin D receptor; isoform protein, VDRI; VDR0; diagnosis;
                                                                                                               dominant negative receptor; signal transmission channel; bone density disorder, screening, ds
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Disclosure; Fig 1; 46pp; Japanese.

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405 ATCACGAAGTCCAGAAGAGAAAAAATGATGATCAAAGAGAAGGAGGAGGAGGAGCTTGA 464
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the isoform protein can be used to diagnose bone density disorders, and sereen for substances having potential vitamin D-like activity.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 24.5%; Score 1129.6; DB 19; Length 1960; Best Local Statistity 81.5%; Fred. Mo. 4.5c 264; Marches 1470; Conservation P; Mismatches 284; Indels 40; Conservation
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The present invention describes a transquence non human mammal (1) that does not express vitamin D receptor gene but does express temperature sensitive SAVO (similan virus 40) large antique urne. Also described are: (1) cell line of (1): (2) a method for screening tot substances that utilise the vitamin D receptor; and (3) substances identified by the method of (2). (1) can be used for developing treatments and preventing diseases related to abnormal vitamin D receptors. The present sequence represents a mouse vitamin D receptor polypurelectide which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Non human mammal lacking vitamin D receptor but expressing temperature
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                                                        vitamin D receptor; vitamin D receptive mechanism failure; qene; transgenic animal; receptor; ss.
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treatments for diseases related to abnormal vitamin D receptors
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FID results in a water soluble protein which can be crystallized as a complex with 1.25-dihydroxy Vitumin D3. Modified VDR polypeptides, or crystals containing them, are used to sereen for (art)agonistic Vitamin p analoques, which are potentially useful for freatment of cancer. Fractionals and observables and for analysis of the three dimensional structure of complexes formed between
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "numlear vitamin D receptor (VDR) mutant"
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                                                                                                                                                                                                                                                                                                                Vitamin D receptor; VDR: cancer; psoriasis; autoimmune disease; osteodystrophy; osteoporosis; ss.
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21.0%; Score 966.4; DB 22;
Best Local Similarity 88.0%; Pred. No. 1.6e-224;
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encoded by the 5'-end of intron 8. VDRI has a dominant negative effect, on the vitamin b signalling pathway. The isotorm protein can be used for determining bone density, and for the screening of compounds (e.g. steroids and retinoic acid derivatives) for vitamin b artivity (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein VDR1. VDR1 differs from the canonical form of VDR (VDR0) by lacking the amino acid sequence encoded by exon 9, but instead substitutes a short sequence (GTEFGREELRDIGHVGDCE in the rat protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           176 CCCCGGATCTGFGGGGTGTGTGGGGGGGGGGGTTTCGCTTTCACTTCAATGCTATGACT 235
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   116 ATGGAGGCAALGGCGGCCAGCACTLCCTGCCTGACCTGGACTTLGACCGGAACGG 175
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gene for vitamin D receptor isoform protein which blocks vitamin D signal pathway – and production of recombinant isoform protein using it, for bone density assay and for screening compounds for vitamin D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                Vitamin D receptor; VDR; bone density; retinoic acid derivative; steroid; bone calcium requlator; immunosuppressant; anticancer; ds.
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194.4   4.2   6769   1 US-08-484-5548-20   Sequence 20,   194.4   4.2   6769   4 US-08-488-0118 20   Sequence 20,   194.4   4.2   6769   4 US-08-6850-727-20   Sequence 20,   194.4   4.2   6769   5   PCT-0895   10202-20   Sequence 20,   194.4   4.2   6769   5   PCT-0895   10202-20   Sequence 20,   194.4   4.2   6769   5   PCT-0895   10204-20   Sequence 20,   194.4   4.2   6769   5   PCT-0895   10204-20   Sequence 20,   194.4   4.1   66.24   2 US-08-687-086-68   Sequence 6,   194.4   4.1   66.24   2 US-08-687-086-68   Sequence 6,   194.4   4.1   10004   4 US-09-818-94-3   Sequence 6,   194.4   4.1   10004   4 US-09-818-96-3   Sequence 6,   194.4   4.1	Ξ	4.4	7.7	4,76,4			20,
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193.4 4.2 676.9 4 18.08-859, 727-20 Sequence 26, 194.4 4.2 676.9 5 181 0895-1020-20 Sequence 20, 194.4 4.2 676.9 5 181 0895-1020-20 Sequence 20, 193.4 4.2 676.9 5 181 0895-1020-20 Sequence 20, 193.6 4.2 7880 4 18-09-210 748A 3 Sequence 20, 191.6 4.2 7880 4 18-09-210 748A 3 Sequence 3, 190.4 4.1 66.2 4 18-09-851-896-58 Sequence 6, 189.8 4.1 70000 4 18-09-851-895-3	÷,	₹. ₹ 6.1	4.2	6369	-	US-08-488-011B 20	20,
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188	187.8	186.8	186.8	186.6	184	183.6	183.6	182.2	182	182	182	181.6	181.6	181.6	181.6	0.181
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APPLICANT. Frall, Jeán M.
TITLE OF INVENTION: Method of Producing
TITLE OF INVENTION. Method of Producing
TITLE OF INVENTION. L.5 Lobydickyvitable of New Optor Profein
NYMBER OF SEQUENCES: 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
AFFLICATION NUMBER: US/07/737,736B FILLING DATE: 19910730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: Schwartz, Carl R.
REGISTRATION NUMBER: 25,437
EEPERENZ-FONCHET NUMBER: 96-296-2185-2
TELECOMMUNICATION:
TELECOMMUNICATION:
                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
OPERATING SYSTEM: DC-DOS/MS-DOS
                                       ; Sequence 5, Application US/07737736B
; Patent No. 5260199
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                                                                                                       APPLICANT: Deliaca, Hector F.
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Crisp, Tracey M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OKGANISM: Homo sapiens
PUBLICATION INFORMATION:
AUTHORS: Baker, Andrew R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 1399 base pairs
                                                                                                                             APPLICANT: Ross, Troy K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 414-277-5774 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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STAIE: Wisconsin
                                                                                   GENERAL INFORMATION:
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CLASSIFICATION:
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                                                                                                                                                                                          : O'Malley, Bert W. Cloning and expression of full-length cDNA
                                                                                                                                                                                                                                                                                        encoding human vitamin D receptor
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     Mangeladorf, David J.
                                              Haussler, Mark R.
Pike, J. W.
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Matches 1399; Conservative
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DATE: May 1988
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AUTHORS: AUTHORS: AUTHORS: AUTHORS: AUTHORS: AUTHORS: CL TITLE: ent Ent TITLE: ent Ent TITLE: ent T
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1141 TOSTO TESSSTOA ASSAURA DE OFFICA (PARE O A PORA DA DA DE DESTINA A CARACTERIA DE 
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TITLE OF INVENTION: 1,25-Dihydroxyvitamin D3 Receptor Protein
NUMBER of SEGÜENCES: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F: Carl E. Schwartz, Fe<sub>3</sub> , - ,<sup>co</sup> Quarles s Prady
411 East Wisconsin Avenue
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MOLECULE TYPE: DNA (genomic)
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TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                     Barbara G
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CORRESPONDENCE ADDRESS:
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14.29 GECTECTOCTCCAGGGOCACGTGCCAGGCCGGGGGTGGGCGGCTACAGCAGCAGCTCCT 14.88
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OTHER INFORMATION: n adenine or quantine or cytosine or thymidine -09-608-285A-8
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Patent No. 6335013
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334 GOODAGACAGGGGGGGGGGGGGGGGGGGGGAATGGCAGTTTGGGAGGCGA 3420
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TILLE OF INVENTION: METHODS AND MATERIALS RELATING TO NOVEL CD39-LIKE
TILLE OF INVENTION: POLYPEPFIDES
4.4%; Score 203.2; DB 4; Length 9365; 75.5%; Prod. No. 6.80-39; tive 33; Mismatches 26, Indels 17;
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CURRENT APPLICATION NUMBER: 05/09/350,840.8
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PRIOR FILING DATE: 1998-07-24
PRIOR APPLICATION NUMBER: 09/244,444
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TITTE OF INVENTION: METHODS AND MATERIALS RELATING TO NOVEL CD49-LAKE
TITLE OF INVENTION: POLYPEPTIDES
FILE REFERENCE: 28111/45008
COPERN AFFLICATION NEMBER: 10,000,265
                                                                                                                                  OTHER INFORMATION: n adenine of quantine of cytosine of thymine NAME/KEY: misc_feature
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LOCATION: (931)
OTHER INFORMATION: n= adentice or quantice or cytosine or thymine
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EARLIER APPLICATION NUMBER: POTZUS99/16180
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EARLIER FILING DATE: 1999-07-09
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EARLIER FILING DATE: 1999-01-19
EARLIER AFFLICATION NUMBER: 05/244/444
EARLIER FILING DATE: 1999-02-04
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NUMBER OF SEQ ID NOS: 37
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NAME/KEY: misc_feature
LOCATION: (6966)..(7148)
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LotATION: (9403)
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                                                                                                              LOCATION: (3409)
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3597 GAGGTTGCAGTGAGCTCACATACCTTACCTTACTCTCCAACTTGGAGACAACAACAGAGAAC 3656
7511 PARRIYER WARFITARIYEWIA FORYER TAYLE WOLLO ARBOY KOMAAAAAAA BAGAC 7452
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CURRENT APPLICATION NUMBER: US/09/608,285A
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PRIOR FILING DATE: 1998-07-24
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APPLICANT: Mulero, Julio
APPLICANT: Years, George
ITITLE OF INVENTION: METHORS
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LOCATION: (13641)
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4.4%; Score 203.2; DB 4; Length 9365;
Best Local Similarity 75.6%; Fred. No. 6.8e 39;
Matches 236; Sonservative 33; Mismatches 20; Indels 17;
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Bust Local Similarity 75.6%, fred. Mo. 8.30-39;
Matches 236; Conservative 33; Mismatches 26; Indels 17; Gaps
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CORRENT APPLICATION NOMBER: US 09/508 285A
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                                                                                                                                                                                                                                                                                                                                         Sequence 59, Application USZU960R2R5A Patent No. 6445014
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APPLICANT: Yeung, George
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TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIOSACCHARIDE STRUCTURES ON GLYCOREOTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OK AS FREE MOLECULES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
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                                                                                                                                                                                                                                                                                                                                                                                                                  4.18, Davie 204.2, DR 4, Dangth 35977;
75.68; Pred. No. 8.6e-39;
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REFERENCE/POCKLT NÜMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                       OTHER INFORMATION: n . a or c or q or t
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FILING DATE: 19920720
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NAME: Lavalleye, Jean-Paul M. P.
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Patent No. 5324663
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(703)486-2347
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                             LOCATION: (13146)..(13691)
NAME/KEY: CDS
                                                                                                                       LOCATION: (15702)..(15839)
NAME/KEY: misc_feature
LOCATION: (14871)
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MEDIUM TYPE: Floppy
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Best Local Similarity
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US-09-608-285A-59
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NAME/KEY: CDS
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TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OILGORACHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIFICS, OF AS FREE MOLECULES, AND FOR THE ISOLALION
TITLE OF INVENTION: OF CLONFD GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Saps
                                                                                                                                                                                                   4.2%; Score 194.4; DB 1, Length 8174;
Rest Local Similarity 80.9%; Fred. No. 8.2e 37;
Matches 259; Consorvative 0, Mismatches 41, Indels 20;
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                                                                                                                                                                                                                                         Indels
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1755 Jefferson Davis Highway, Pourth Ploor
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UPPFNT APPLICATION DATA:
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; Patent No. 5595900
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                                                                                                                             DNA (genomic)
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             INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
LENGIH: 8174 base pairs
TYPE: NUCLEIC ACID
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CORRESPONDENCE ADDRESS:
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STATE: Virginia
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                                                                                                                                                ANTI-SENSE: NO
                                                                                      STRANDEDNESS:
                                                                                                                           MALECULE TYPE:
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                                                                                                           TOPOLOGY:
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TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESTS
TITLE OF INVENTION: OF OLIGOSACCHAPIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLLEIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                         4.2%; Score 194.4; DB 1; Length 8174; 89.9%; Pred, No. 8.2c-37;
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Arlington
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARRE PATENTIA REPASSE #1 0, Version #1 25
CURRENT APPLICATION DATA:
ALLI ALLA WITHER HE DE PS OF 8A
FILLNG DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
                                                    REFERENCE/DOCKET NUMBER: 2363 060-55
TELECOMMUNICATION INFORMATION:
          NAME: Lavalleye, Jean-Paul M. P. REGISTRATION NUMBER: 31,451
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                                                                                          TELEPHONE: (703)521-4500
TELEPA: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                             LENGTH: 8174 base pairs
TYPE, nucleic acid
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APPLICANT: LOWE,
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MOLECULE TYPE:
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US-08-525-058A-5/c
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MIGHTE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESTS
THILE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON CLYCOPROTEINS,
THILE OF INVENTION: GLYCOLIFIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
THILE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DEFERMINE THESE STRUCTU
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PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
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0; Mismatches 41;
                                                                      NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCEZE TREET NUMBER: 2863-060-55
TELECOMMUNICATION INFORMATION:
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Patent No., 5955347
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INPORATION FOR SEU ID NO: 5;
SEQUENCE CHARACTER STICS;
LENGTH: HI74 base pairs
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SIRANDEDNESS: double
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TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCO-POTEINS,
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
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                                                                                                                                                                                                                                    Lavalleye, Jean-Paul M. P.
RATION NUMBER: 31,451
                                                                                      08/393,246
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Patent No. 6268193
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TELEPHONE: (703)521-4500
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ATTORNEY/AGENT INFORMATION:
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INFORMATION FOR SEQ ID NO:
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                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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US-09-042-531-5/c
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CURRENT APPLICATION DATA: APPLICATION NUMBER: POT/20891/00899
                                                                                                                                                                                                                                                                                                                                                          Jean-Paul
                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
(FFALIE) SYSTEM PC (* , MS
                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 31,451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3649 AGOGABACTOCOTOTAGAA 3668
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                                                                                                                                                                                                                                                                                                FILING DATE: 19910214
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye Ph.D., JG
                                                                                                                                                                                                                                                                                                                                                                                                                                (703)521-5940
(703)486-2347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8174 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX. (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Competition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unknown
                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEIC ACID
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TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           unknown
                                                                                                                                            Virginia
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                                                                                                                                                                                                                                                   SOFTWARE
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                                                                                                                                        STATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3.55 TAGAAGTGGGCCAGGACAGGCCGGCCGCGCTGTGGCTCAGATCTGTAATCCCAGGAGTTTGG 3412
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                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 31,451
REFERENCE, POTRIT NUMBER: 2000 GENERAL
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                US 08/220,433
                                                                                                                                                                                                                                                                                                      US 07/914,281
                                                                                                                                       SURRENT APPLICATION DATA:
APPLICATION NUMBER: US/29/242,531
                                                                                                                                                                                                                               TE, DR, N. 14, 24*
                                                                                                                                                                                                                                                                                                                                                          Lavalleye, Jean Paul M. P.
                                                                                                       St. .. ] - SW2/SUIJ - LID
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GENERAL INFORMATION:
                                                                 3: Floppy disk
IBM PC compatible
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INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                     FILING DATE: 20-JUL-1992
ATTORNFY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                        (703)521-4500
(703)486-2347
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      unknown
                                                                                                                                                                                       CLASSIFICATION:
PRIOR APPLICATION DATA:
AFPLICATION HOMBES
                                                  COMPUTER READANLE FORM-
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
FILING DATE: 30-MAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleic acid
                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
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                                                                                                     OPERATING SYSTEM:
Virginia
                    U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; ANTI-SENSE; NO
US-09-042-531-5
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                                                                                                                                                                                                                                                   FILING DATE:
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                  COUNTRY:
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                                                                           ADDRESSEE: P.C. ABION, SPIVAK, MOCHELIAND, MAIFR & NEUSTADT.
                                                                                                                                    1255 Jefferson Davis Highway, Suite 400
Aslington
                                                                                                                                                                                                                                                                                                                                              Patentin Release #1.0, Version #1.25
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LOCATION: 4686..5780
CTHEE INFOFMATION: /label= mat_peptide
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FILE PEFFERENTE: UTSH: 24.4
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Hest Loral Similarity 24.78; Pred. No. 1.6e-46;
Matches 228; Conservative 0; Mismatches 76; Indels 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLIATION NUMBER: USZUGZJULJA65
CURRENT FILLING LATE: 1999-04-28
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EARLIER APPLICATION NUMBER: 60/043, 370
EARLIER FILLING DATE: 1998 04-28
NUMBER OF SECTIONS: 4
SETWARE: PARABILITA VOT. 2.6
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                                                                                                                                                                           2 Sequence 3, Application USZ09301665
2 Fatent No. 6207676
                                                                                                                                                                                                                                                                                                                                             GENERAL TRESENATIONS
APPLICANT RELIERS, ROUNTY E.
APPLICANTS DALLA, SURJIT K.
APPLICANTS BALATKRUBN, MICHAEL R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HI348 OFTECAAGOTIC BLZZ
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PESTILI 15
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### SUMMARIES

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526 GGGGGACCA1AAGACCTACGACCCACCTACTCCGACTTCTGCACTFCCGGCCTCCACT 585
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                                                                            Serjorace 1714, Apj France: Usycyet2701
Patent No. US20006132237A1
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; OTHER INFORMATION: n - A,T,C or G
US-09-867-701-5214
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646 CTTCTCTCTGGGGACTCCTCCTCCTGCTGCTCAAATCACTCTATCACTTCTTCAGAAATGAT 705

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TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
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                                                                                                                                                                                                                                                                             4525 TGGTAATAAAAATGGCTCATACTTAFATAGCACTIACTTTGCTTTGCAAGTACTGCTGTAA 4584
                                                                                                                                                                       200 TAGTGAAAAGTAGAGATATGGGAAAAGGAAAAGATGTAAAAGAGGGGGAAAAAGATGTGAAAAGAAAAGAATGAATTTGC 141
                                80 IGGTAATAAAAATGGGTGATACTTTATATAGGAGTTAGTTTG-TTGCAAGTACTGCTGTAA 22
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PRIOR ADTITION DATE: 2000-10-04
PRIOR APPLICATION NUMBER: HS 60/236,359
PRIOR FILING PATE: 2009 04-27
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PRIGE FILING DATE: 2000-09-21
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Patent No. US20020048763A1
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Chen, Wensheng
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TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
TITLE OF INVENTION: Sets
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                                                                                                                                                                       766 GACCCTAGACCTGTCCCAGCTCTCCATGCTGCCCACCTGGCTGACCTGGTCAGTTACAG 825
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99.5%; Pred. No. 5.6e-68;
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SOFTWARE: PATENTIN VERSION 3.0
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Patent No. US20020150877A1
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55.1%; Pred. No. 1.4e 49;
ive 0; Mismatches 487; Indels 33;
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99.7%; Pred. No. 1.5e-51;
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                                                                                                                                                                                        OTHER INFORMATION: MAP TO AC004466.1

    Sequence 4, Application 03/0914-028
    Publication No. 0820030032750A1
    Ceneral, INFORMATION;

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NUMBER OF SEQ ID NOS: 4
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                                                                                                          ORGANISM: Homo sapiens
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CHREENT APPLICATION NUMBER 118/09/864,761
CURRENT FILING DATE: 2001-05-23
PPLOF APPLICATION NUMBER-11S A0/7180,312
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PRIOR ADDITATION NUMBER: POLICIANTY
PRIOR FILING DATE: 2001-01-30
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2000-09-27
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PRIOR APPLICATION NUMBER: US 50,207,456
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Patent No. US20020048763A1
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TITLE OF INVENTION: No. GS26036032790Alel Vitumin D Receptor Eclated Polygogi ides, No
TITLE OF INVENTION: Acid Sequence Freeding the Same and Uses Thereof
ELE REFERENCE 10806-65
CURFENT APPLICATION NUMBER: US/09/143,828
CURPENT FILIN: DATE: 1998-08-31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5.9%; Score 272.8; DB 9; Length 2965; 55.1%; Pred. No. 1.4e-49; tive 0; Mismatches 487; Indels 33;
                                                                                                                             : Sequence 1, Application 08/09143828
; Publication No. 9820030032790A1
; GENERAL INFORMATION
1310 AAGGAGTAGTAGGGTG 1327
                                 1401 CAGGGGCTGCTGCGATC 1418
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Matches 638; Conservative
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TITLE OF INVENTION: HUMAN GENEMAL-DERINFE SINGLE FXON NUCLEUM ACTO PROBES USEFUL FO
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
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830 CAAAAGGTCATTGGCTATGCTAACATGATAAGAGAATTAAGAGACGTCAACGTCTGAGGAC
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APELLYNNI: MERKUDAV, Gennady et al
IIIIE OF INVENTION: ISGLATED HUMAN KAS-LIKE PROTEINS,
IIIIE OF INVENTION: NUCLEI' ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
IIIIE OF INVENTION: PROTEINS, AND USES THEREOF
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                        4.6%; Score 211.2; DR 10; Length 473; 98.6%; Pred. No. 1.5c 36; 3; Eidels 9; 19c 0; Mismatches 3; Eidels 9;
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OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL - 4.4
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NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Auromax Sequence Listing Engine vers. 1.1
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NUMBER OF SEQ ID NOS: 7
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PRIOR APPLICATION NUMBER: PSIZUSO1ZUG655
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APPLICANT: Mulero, Julio
TITER OF INVENTION: METHODS AND MATERIARING TO MAYEL CD39 LIKE POLYPEPTIDES
FILE REFERENCE: 28110735908
CURRENT APPLICATION NUMBER: US/10/092,063
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PRIOR APPLICATION NUMBER: 09/370,265
PRIOR FILING DATE: 2002-01-31
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PRIOR APPLICATION NUMBER: 09/244,444
PRIOR FILING DATE: 1999-02-04
PRIOR FILING DATE: 1998-07/122,449
PRIOR FILING DATE: 1998-07-24
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IIILE OF INVENTION: METHODS AND MATERIALS PRIATING TO NOVEL CD39-LIKE
IIILE OF INVENTION: POLYFEPTIDES
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PRIOR APPLICATION NUMBER: 69,750,836
PRIOR FILING DATE: 1999-07-09
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                                                                                       PRIOR APPLICATION NUMBER: 09/118,205
PRIOR FILLING DATE: 1998-07-16
                                                                                                                                                                         PRIOR APPLICATION NUMBER: 09,122,449
PRIOR FILING DATE: 1998-07-24
                                                                                                                                                                                                                                                                 PRIOR AFPLICATION NUMBER, 09/244,444
PRIOR FILING DATE: 1999-02-04
PETER APPLICATION NUMBER: 05,273,447
                                                PRIOR FILING DATE: 1999-03-19
                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin Ver. 2.0
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Matches 236, Conservative
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LOCATION: (9303)
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LOCATION: (3409)
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LITLE OF INVENTION: 4700, A NOVEL HUMAN PROFEIN KINASE AND USES THEREFOR
FILE REFERENCE: 10147-5001
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80.6%; Pred, No. 1.1e-33;
ive 9; Mismatches 44; Indels 20;
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08 or well 24 s. Application 05/0985488 s
Februar No. 0820020055479A1
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; Falcat No. USZOUZUO77412A1
; GENERAL INFORMATION:
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Madeline M. Butler
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3657 PROSPRITAGAN 3668
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Robert McKay

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82.7%; Pred. No. 7.4e<sup>-43</sup>;
TITLE OF INVENTION: ANTISHMSE MODULATION OF PIPIB EXPRESSION
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CUPPENT FILING FATE: 2091-08-21
PRIOR APPLICATION NUMBER: 60/160626
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NUMHER OF SEQ 1D NOS: 2
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ 1D NO 1
                                             CURRENT APPLICATION NUMBER: US/09/854,883
CURRENT FILLING DATE: 2001-05-14
PRIOR APPLICATION NUMBER: US-09/629,644
                                                                                                                        PRIOR FILLING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 09/487,368
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PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 09/768184
PRIOR FILING DATE: 2001-01-24
PRIOR APPLICATION NUMBER: 03/804076
PRIOR APPLICATION NUMBER: 03/804076
PRIOR APPLICATION DATE: 2001-03-14
PRIOR APPLICATION HOMER: 03/8040176
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; Patent No. US23020123095A1
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PRIOR APPLICATION NUMBER: 60/193756
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                             FILE KEFERENCE: ISPR-0576
                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 389
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LENGTH: 75899
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APPLICANT: Ebner, Reinhard TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Sign FIFUE OF INVENTION: Sees
                                                                                   7667 IGABOTGABATGSTGGGGGTJACTGTGCBACCTGGAVAACAAJAGGAAACICGGTGTTAG 3666
1111 ITHTH THITT I THILL THILL HILL CHILLIHHHHHHHHHHHH I
226 IGABOTGAJAHODYGTAGATGAGATGSTTGSGTAATAAGGGAATTGTGTGAA 285
  3551_CGAGCTACTCAGGAGGTGAGGCAGAAGAA----TTGAACCCAGGAGGTGGAGGTTGCAG_4606
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    Mishabbas

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CUREENE FILING DAIE: 2001-10-02
PRIOR APPLICATION NUMBER: US/60/237.598
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PRIOR APPLICATION NUMBER H3/50/227,604
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; Patent No. US20020115085A1
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FILE REFERENCE: 689290-73
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                                                             CURRENT APPLICATION NUMBER: US/09/964,824A CURRENT FILINI DATE: 2001-09-27 PRIOR APPLICATION NUMBER: US/05/236,033 PRIOR APPLICATION NUMBER: US/66/236,033 PRIOR APPLICATION NUMBER: US/66/236,032 PRIOR APPLICATION NUMBER: US/66/236,028 PRIOR PILING DATE: 2000-09-28 PRIOR PILING TARE: 2000-09-29 NUMBER OF ESQL TO NOS: 583
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SEQ ID NO 509
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ITILE OF INVENTION: Cameer St
ITILE OF INVENTION: Sets
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Matches 255, Conservative
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ORGANISM: Homo sapiens
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ORGANISM: buman
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                   US-0'9-933-267A-1
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SUMMARIES

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DEFINITION	A0140214 PLACEZ Homo sapiens cona cione PLACEZOGO137 57, mKNA
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ACCESSION	A0140214
VERSION	AU140214.1 GI:11001745
KEYWORDS	EST.
SOURCE	human .
ORGANISM	Homo sapiens
	Bukaryota, Metazoa, Chordala, Ctaniala, Vertebrata, Buteleostomi;
	Mammalia; Entheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 847)
AUTHORS	Ota, T., Suzuki, Y., Saito, K., Ishii, S., Yamamoto, J., Suqiyama, T.,
	Nishikawa, T., Nakamura, Y., Sugano, S., Masuho, Y. and Isogai, T.
TITLE	HKI human cDNA project (eta,I., Suzuki,Y., Saito,K., Ishii,S.,
	Yamamoto, J., Suqiyama, T., Nishikawa, T., Nakamura, Y., Suqano, S.,
	Masuho, Y., Isoqai, T.)
JOURNAL.	Unpublished (2000)
COMMENT	Contact: Takao Isogai
	Genomics Laboratory
	Helix Research Institute
	1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
	Tel: 81-438-52-3975
	Fax, 81 418 52-1986
	Email: qenomics@hri.co.jp
	HRI human CONA project. 50 & Condome pass sequencing. Helix
	Research Institute; cDNA library construction: Department of
	Virology, Institute of Medical Science, University of Tokyo, and

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121 ACCLOSSOTTUPACGGGGASTOGOGIATOANGAAGAAQAAQGAGGGAAGTGCGAGGGSTBU
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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National Institutes of Health, Mammalian Gene Collection (MGC)
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ECORI; cDNA made by oliqoidi primind, birectionally cloned into EcoRixhol sites using the following 5° adaptor: GGCACAGG(5). Size sustent the following 5° adaptor: Library constructed by Ling Bong in the laboratory of Gerald M. Rubin (University of California, Herkeley) using ZAP cDNA synthesis kit (Stratogene) and Saperscript II RT (Life Technologies). Note: this is a NIH_MGC
Zhote "organ: Tymph: Vector: poTB7: Site,1: Xho1: Site,2:
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/lab_host="DH10B" (phage-resistant)"
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/wate="organe-sking Vertor-propers" = birectionally
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Mammalia: Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Clone distribution; MGC clone distribution information can be
found through the L.M.A.G.E. Consortium/LLMN, at: image.llnl.gov
Plate: LLCMI227 row: q column: 17

    (bases 1 to 876)
    NIH-MGC http://mgc noi nih.gov/.
    National Institutes of Health, Mammualian Gene Collection (MaT)

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linear
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                                                                                                                                                                               16.2%; Score 743.8; DB 12, 96.4%; Pred. No. 5.4e-105; tive P. Mismatches 22,
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Contact: Robert Strausberg, Ph.D.
Email: cqapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DATE/UTP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: cgapbs-r<sup>a</sup>mail.nih.gov
Tissue Procurement: Lite Technologies, Inc.
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Location/Qualifiers
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Another word of probled brain, lune, restlis; Vector:
pcMV SWRGFs Site. I No.1; Site.2: ErokV (destroyed); KNA
swrder anonymous peopl of 6 male brains, age fange 2x-27; I
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(3) Indels 16; Gaps 11;
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/lab_host="bild00 (phage-resistant)"
/note="organ: brain: Vector: poTH7:
FroR1, cDNA made by oliqu dT priming. Directionally cloned into EcoNiXhols Sites using the following 5' adaptor: GGTACAGGG). Ilbrary constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of Calliants, Edizier,) usual ZAP-cDNA synthesis kit (Stratagene) and Supersoript II R! (Life Technologies).
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AGENGGGET_6609441 NIH_MGC_98 Homo sapiens CDNA CLONE IMAGE:5431010
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1106)
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Clone distribution: MGC clone distribution information can be
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Plate: LLCM1902 row: j column: 03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Robert Strausberg, Ph.D.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: eqapbs-remail.nih.gov
Tissue Procurement: ATCC
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NCI-COAP http://www.cii.ni~nih.j.,ncicgnp.
National Cancer Institute, Cancer Genome Anatomy Project (COAP),
3986 CIAIAACAIGCAIIIGICIIIIGIAA GIGACCIICCCAGCICICCCICICGCCICIGGCCCIG 4044
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                                    418 AIGGGGCTCGAACGCGAAAAAGCGCAATCATCATTCTACTACTTACAAFCAAGGTGTAAAA 477
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Location/Qualifiers

FEATURES

Seq primer: M13 FORWARD POLYA-Yes.

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/morth="Organ= Lott Dolvis; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker: Site1: EcoR I. Site2: Moi I. MOI CAR-LIO is a chear ibrary containing the following tissue(s): Chondrosarcoma. The library was constructed according to Regaldo, Lengin and Scares, Cenome Presentch, 6:791-806, 1946. First strand cDNA synthesis was primed with an olive-il primer containing a Not I site, Nobble
                                                                                                                                                                                                                                                                                                                                                        stranded cDNA was ligated to an ECOR I adaptor, digested with Not 1, and cloned directionally into pT7T3-Pac vector. The oliquonal evolute ased to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is ACACILOGAC.
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98.4%; Pred. No. 1.7e-90;
""semarches 7; Indels
                                                                                                                 /tissue_type-"Chondrosarcoma"
/dev_stage-"Adult"
/lab_bost-"DH10R (Lite Technologies)"
                                                                                        /clone_lib-"NCI_CGAP_E10"
/tissue_type-"Chondrosarcoma"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TAG_TISSUE-chondrosarcoma
                 /organism="Homo sapiens"
/db_xref="taxon:9606"
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163 c 151 a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia: Eutheria; Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                     AG1285233F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606825 57,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cDNA Library Arrayed by: The [.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution intormation can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661 ACCOUGLGGGACATCGGCATGAAGGAGTTCATTCTGACAGAGAGGAAGTGCAGAG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4.21 GAAGCGGGGGGTGATGCTGAAGCGAGGAGGAGGAGGACCTTGAAGGACAGTGTGCGGGC 480
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 (bases 1 to 708)
NIH MAX http://may of mih qev/.
National institutes of Health, Mammalian Gene Collection (MAX)
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/lab_host="bH10B (phage_resistant)"
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126 ANTICARCTALINGAAAGTHIGHIAIGBIAATAAAAATGGCTCATAGTTATATAGG 67
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                                                                            4556 ACHIACHTIGCAAGIACTGCIGIAAATAAATGCTTTATGCAAAGC 4504
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                                                                                                                          6. ALTANTES TESPANTACES (1907) 19
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                                                                                                                                                                                                                                                                                                                                                                        MKNA
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0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Plate: LB3M257 row: b column: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Robert Stransberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism "Homo sapiens"
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Lissue Procurement: ALCC
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Clone distribution, MGC clone distribution information can be
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Tissue Produrement: Lite Technologies, Inc. cDNA Library Preparation: Lite Technologies, Inc
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http://image.llnl.gov
Plate: LLAMI1442 row: 1 column: 14
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Contact: Robert Strausberg, Ph.D.
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enriched for full-length clones and was constructed by C. Gruber (invitrogen). Research Genetics tracking code 021 Note: this is a NILLMGC Library."
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adaptor: 00;AvidAv(6). Size-solected 5500p for average insert size 1.8kb. Library constructed by Linq Hong in the laboratory of Geraid M. Embin (University of California, Berkeley) using ZAP-cDMA synthesis kit (Stratagene) and Superscript, ILKI (Life Technologies)."
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Mammalia, Buthoria, Primates: Catarrhini, Hominidae, Homo.
T. (bases: Fro 77) (mgr oci.) 3 v./
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National institutes of Health, Mammalian Gene Collection (MGC)
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cloned into Ecok!/Xhol sites using the following 5'
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cDNA Library Proparation: Ling Bong/Rubin Laboratory
cDNA Library Arrayed by: The L.M.A.G.E. Consortium (LLNL)
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High quality sequence start: 31
High quality sequence stop: 660.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unpublished (1999)
Contact: Bohert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/dh_xref="taxon'9606"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: cqapbs-remail.nih.qov
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BE385638.1 GI: 9331003
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Conservative
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Libraries and CloneIDs: Soares NbHSF pool 1:
409484 310919, $24208-325895 Soares NbHSF pool 1:
409484 310919, $24208-325895 Soares NbZHP pool 1:
404407, 15175, 152427 Soares NbZHFS 9W pool 1:
758280-768593, 722194 774407 Soares NbHPA pool 1:
644776-395411, 329136-52223, 325280-325653 Soares NbHCT pool 1: 724729-72667, 75080-740999 Subtraction by Bento Soares and M. Farina Bonaldo."
6 Others
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the same 5 libraries. The pools consisted of the following
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A(4%)554 BST 13-APR-1999 FIGURE'S SOME SNSE_FB-9W_OI_PA P_SI Home sapiens cDNA clone IMAGE:214%97 % similar to qb:30%258 VITAMIN D3 RECEPTOR (HUMAN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo supiens
Bukaryata, Metazoa, Chordata, Craniata, Vertebrata, Enteleostomi,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              National Caucer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This clone is available royalty-tree through LLML; contact the IMANDE Chasortium (into image.llml.gov) for further information. Insert Length: 1596. Std Error: 0.00
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                                                                                                                                                      845 ILLGCIAAGATGATACAGATTCAGAGACCTCTCAGAGGACCAGATGGTACTGCTG 904
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1. (bases 1-10-843)
NYI CGAP Attp://www.jeebi.nlm.nih-qog/meieyap
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Alb sret "tagon;9606"
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High quality sequence stop: 463.
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Score 631.4; DB 9; Length 843; Fred. No. 111c 87;

14.7%;

Query Match Best Local Similarity

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BE390515 665 bp mkNA linear EST 21 JUL-2000 661284131F1 RJH_MGC_14 Home sapiers chNA clube (MACE, 0.00720 5')
0; Mismatches 47; Indels 13; Gaps 10;
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                                1951 TTCTTCCCATCACTGGAGCACGGCACGAAPPPOPPOPTGAGAAAACTCAAGAAGAAA 2010
                                                                                                        2011 AACAGACAAAAACAGCCTCACAGAAATATGACAGCTGTCCCTGTCACTAAACTCACAG 2070
                                                                                                                                                                             2071 FrechegecerdgggetaAAGGGGTrgchrgAGGTGAAGGrGAAGGGTGGAAGGATGGAATG 2130
                                                                                                                                                                                                                                                     2131 TAGGA-GGACTGAATTGTGCGCAGTTTGGAAAAAGCAGGTGGGGAGCTGGGTGCTGCTGCTC 2189
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// incle="Organ ulerus" Vector proper; Site_1" Xhot; Site_2:
Ecopt_conN made by olige-dT priming. Directionally
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in the laboratory of a rull M Folds. (Privatshy of
California, Borkeley) using DAP FDA Synthesis kit
(Stratagene) and Supersoript II FT (life Technologies) "
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                                                                                                                                                         DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
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/fissue_type="endometrion, adenogarcingma celtiling"
                                                                                                           cDNA Library Preparation: Linq Hong/Rubin Laboratory CDNA Library Arrayed by: The L.M.A.G.E. Consortium (LLNL)
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                                                                                                                                                                                                 found through the I.M.A.G.E. Consortium/LENL at: http://imagellnl.gov
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/db_xref "taxon,9606"
/clone="!MACP:3695720"
                   Unpublished (1999)
Contact: Echail Strausberg, Ph.D.
Email: cqapbs-remail.nih.qov
                                                                                                                                                                                                                                                                       High quality sequence stop: 639.
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cDNA Library Arrayed by: Greg Lennon, Ph.D. Days Senome Sequencing Propagation to the Propagation of the Propagation of the Clone distribution: NCI-CRAP clone distribution information can be found through the 1 M A G P Consortium/LLNL at:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTTT 3/), deable stranded cDNA was size selected, ligated to BCo H adapters (Pharmacia), digested with Not I and closed into the Not I and Eco PI sites of a modified pT7T vector (Pharmacia). Library went through one round of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: cyapbs-ramail.nih.gov
cona Library Preparation: M. Bente Soares, Ph.D., M. Fatima Remaldo
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| 1359516 3' similar to qb:103258 VITAMIN D3 PECEPTOR (HUMAN); mRNA
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Mammalias Eutherias Primatess Cataribinis Bominidaes Homos
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main Tark Lite (jaww noting) in the company project (CGAP),
Malburg Canner Institute, Canner Gradumy Project (CGAP),
Dumer Gene Index
                                                   541 PGCTGAAGTCAAGTGCCATTGAGGTCATCATGTTGACTCCAATGAGTCCTTCACCATGG 600
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/cloue-"1359516"
/clone-1ib-Sortes_parathyroid_tumor_NbHPA"
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91.6%; Pred. No. 1.9e-84;
tive 0: Mismatcher 59; Tedels
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Matches 72%; Conservative
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Homo sapiens
Enkaryola; Metazon; Chordala; Craniata; Vertebrata; Enteleostomi;
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                                                                                          National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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Contact: Robert Strausberg, Ph.D.

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line CS5. The library was constructed according to Bonaldo Lennon and Scares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo di primer containing a Not I site. Double stranded cDNA was liquided to an Brook I adaptor, discisted with Not I, and cloned directionally into p1714 Fac vector. The
               COME Library Arrayed by: Do. M. Mento Source, University of lower CONA Library Arrayed by: Dr. M. Mento Source, University of lower CONA Library Arrayed by: Dr. M. Mento Source, University of lower DNA Sequencing by: Pr. M. Mento Sources, University of lower Clone Distribution: Clone distribution information can be found through the L.M.A.S.E. Consorting(TUE of Mary (Time P. 1981) and
                                                                                                                                                                                                                                                                                                                                                                                                        /clone_lib=NCI_CGAP_EDH=
//lissue_type="Chondrosarcoma"
/dev_stage="Adult"
/lab_host="BHIOB (Lite Technologies)"
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Site_2: Not I: NCI_CGAP_EDH is a normalized cDMA library
containing the following tissue(s): Chondrosarcoma cell
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located between the Not I site and the (d1)18 (ail. The
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/db_xiet="taxon:9606"
/elone="IMAGE:5845u29"
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quEago? x1 NoT_coaP_Elds Home Sapients clan clear BST 01-FEB-1999 similar to qb:J0325B VITAMIN D3 RECEPTOR (HUMAN):, mRNA sequence.
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CDNA Library Arrayed by: Greq Lennon, Ph.D.
DNA Sequencing by: Washington Indiversity Senone Sequencing Center
Clone distribution: MCLORP Clone distribution information can be
found through the LM A C E. Consortium/LLNL at:
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National Cancer Institute, Cancer Genome Anatomy Project (GGAP),
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Emmert-Buck, M.D., Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                   4544 TACTIATATAGGACTTACTITGITIGGAGIACIGGIGIAAAIAAA GGCITAAAA, 4603
4424 BUCAGOGAAABAATGTAAACAGTGOCTGCTGAATGATTTCGAAAGAGAAAAAAAGTTTGC 4483
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Contact, Robert Strousberg, Ph.D
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